APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE SUGAR CREEK WATERSHED

Station SC-25	Valid N	Mean	Confd -95.000%	Confd +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std Dev	Standard Error	Skewness	Std Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	78	216.1538	207.2877	225.02	218.5	16860	48	279	197	240	231	43	1546.366	39.32386	4.45255	-1.35883	0.272211	4.236337	0.538176
Ammonia (mg/l as N)	78	0.057051	0.053101	0.063001	0.05	4.45	0.05	0.2	0.05	0.05	0.15	0	0.000696	0.026389	0.002988	4.506506	0.272211	21.55427	0.538176
BOD (mg/l)	37	1.318919	0.933214	1.704623	1.2	48.8	0.5	6.5	0.5	1.5	6	1	1.338243	1.156825	0.190181	3.055157	0.387589	11.54033	0.758719
COD (mg/l)	78	12.15897	10.35899	13.95896	10.15	948.4	2.5	58.8	8.4	13.9	56.3	5.5	63.73518	7.983431	0.903946	3.062074	0.272211	14.69851	0.538176
Cyanide (mg/l)	10	0.0053	0.004817	0.005783	0.005	0.053	0.005	0.007	0.005	0.005	0.002	0	4.6E-07	0.000675	0.000213	2.27658	0.687043	4.765021	1.334249
Nitrate (mg/l as N)	78	4.451282	3.805418	5.097146	4.35	347.2	0.11	11	1.6	6.7	10.95	5.1	8.205842	2.864584	0.32435	0.250599	0.272211	-0.94227	0.538176
Total Phosphorus (mg/l as P)	78	0.087885	0.06989	0.105879	0.07	6.855	0.015	0.62	0.05	0.11	0.605	0.06	0.00637	0.079811	0.009037	4.069455	0.272211	25.20727	0.538176
Total Solids (mg/l)	78	433.6795	412.8422	454.5167	427.5	33827	87	924	397	455	837	58	8541.26	92.41894	10.46438	2.03577	0.272211	15.20911	0.538176
Suspended Solids (mg/l)	78	21.01282	7.421204	34.60444	8	1639	2	524	4	19	522	15	3633.987	60.28256	6.825656	7.773154	0.272211	64.97643	0.538176
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	75	266.8667	30.74412	502.9892	30	20015	5	8000	5	120	7995	115	1053223	1026.267	118.5031	6.556504	0.2774	46.43238	0.548211
TOC (mg/l)	0																		
Hardness (mg/l)	78	296.5641	284.8229	308.3053	303.5	23132	90	390	270	328	300	58	2711.859	52.07552	5.896391	-1.16883	0.272211	2.70631	0.538176
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	11.66957	11.10796	12.22919	11.5	735.12	6.43	18.6	10.21	13.21	12.17	3	4.955141	2.226015	0.280451	0.327451	0.301589	0.485928	0.59484
pH	64	8.075625	7.968511	8.182739	8.055	516.84	7.17	8.87	7.78	8.445	1.7	0.665	0.193879	0.428811	0.053601	0.299327	-0.1946	-1.07879	0.590491
Copper (ug/l)	9	3.222222	2.020431	4.424013	2	29	2	6	2	4	4	2	2.444444	1.563472	0.521157	0.793273	0.717137	-0.92178	1.399708
Iron (ug/l)	0																		
Zinc (ug/l)	9	9.444444	5.877976	13.01091	10	85	5	20	5	10	15	5	21.52778	4.639804	1.546601	1.469949	0.717137	3.280511	1.399708